

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 11 AND GOVERNOR LANE BLVD., HOFFMAN DRIVE IN WASHINGTON COUNTY. THE WORK IS NECESSITATED BY THE ADDITION OF A NORTHBOUND EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR US 11. US 11 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION. THE INTERSECTION WILL ALSO BE UPGRADED TO USE L.E.D. SIGNAL HEADS, VIDEO CAMERA DETECTION, NORTH AND ONE WAY OPTICOM FOR FIRE PRE-EMPTION WILL BE INCLUDED. THE PEDESTRIAN CROSSING WILL INCLUDE NEW ADA RAMP WITH APS PEDESTRIAN EQUIPMENT AND COUNTDOWN SIGNALS.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULLY-TRAFFIC-ACTUATED MODE WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR NORTH AND SOUTHBOUND US 11 APPROACHES. THE SIDE STREET APPROACHES WILL OPERATE CONCURRENTLY. AN ALTERNATE PEDESTRIAN PHASE FOR CROSSING THE SOUTH LEG OF US 11 WILL REMAIN. FIRE PRE-EMPTION PHASES WILL BE INCLUDED FOR BOTH NORTH AND SOUTH BOUND APPROACHES OF US 11.

APS NOTES

TO CROSS US 11

A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL BE "WAIT TO CROSS US 11 AT GOVERNOR LANE."

B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE

CONTACT PERSONS FOR DISTRICT 6 ARE AS FOLLOWS:

MR. GEORGE H. SMALL
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(301) 729-8444

MR. ANTHONY CRAWFORD
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(301) 729-8457

MR. ROBERT ROWAN
ASSISTANT DISTRICT ENGINEER - UTILITIES
(301) 729-8439

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
* 9086	1 EA	VIDEO DETECTION EQUIPMENT, 1-4 CAMERAS (TO BE INSTALLED BY SHA SHOP)
9570	6.25 SF	SHEET ALUMINUM GROUND MOUNTED SIGN
	1 EA	R3-7R (30" x 30")
9571	7.5 SF	SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN
	1 EA	R3-7R (30" x 36")
	2 EA	R10-3(I) PUSHBUTTON TO CROSS US 11

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

BID ITEM NO.	QUANTITY	DESCRIPTION
1001	EA	MAINTENANCE OF TRAFFIC
2002	1 CY	TEST PIT EXCAVATION
5001	180 LF	5 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC MARKING
5001	90 LF	5 INCH HEAT APPLIED YELLOW PERMANENT PREFORMED THERMOPLASTIC MARKING
5002	770 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
5004	160 LF	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
5005	100 LF	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
5006	4 EA	FURNISH AND INSTALL HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LETTERS
5007	2 EA	FURNISH AND INSTALL HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROWS
6002	14 LF	STANDARD TYPE "A" COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6003	125 SF	5 INCH CONCRETE SIDEWALK
6004	40 SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
8001	30 EA	FURNISH AND INSTALL 12 IN. L.E.D. SIGNAL HEAD SECTION
8002	1 EA	2 WIRE CENTRAL CONTROL UNIT
8004	6 EA	FURNISH AND INSTALL 8 IN. L.E.D. SIGNAL HEAD SECTION
8005	1 EA	ADJUST EXISTING HANDHOLE TO GRADE INCLUDING COLLAR
8008	2 EA	AUDIBLE / TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8009	1 EA	FURNISH AND INSTALL BREAKAWAY PEDESTAL - 10 FOOT
8011	1 EA	CONDUIT BEND IN EXISTING FOUNDATION - 2 INCH PVC
8014	2 EA	FURNISH AND INSTALL L.E.D. 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8021	2 EA	FURNISH AND INSTALL NON-INVASIVE DETECTOR WITH 500 FT. LEAD IN CABLE
8022	1 EA	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT PER ASSIGNMENT
8027	4 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA AND CABLE UP TO 500 FEET
8035	40 LF	FURNISH AND INSTALL SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT 3 INCH - SLOTTED
8036	10 LF	FURNISH AND INSTALL SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT 3 INCH - TRENCHED
8038	15 LF	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4 INCH x 4 INCH
8040	14 SF	INSTALLATION OF OVERHEAD OR GROUND MOUNTED SIGN - INCLUDING ALL HARDWARE
8042	200 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8044	1 EA	FURNISH AND INSTALL METERED SERVICE PEDESTAL - EMBEDDED
8046	30 LF	FURNISH AND INSTALL ELECTRICAL CABLE 1 - CONDUCTOR (NO. 4 AWG)
8048	5 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8049	1 EA	FURNISH AND INSTALL DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764
8051	2 EA	FURNISH AND INSTALL OPTICOM NO. 721 DETECTOR EYE
8052	400 LF	FURNISH AND INSTALL 4 CONDUCTOR OPTICOM CABLE
8055	200 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2 - CONDUCTOR (NO. 14 AWG)
8057	20 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 AWG)
8058	480 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 AWG)

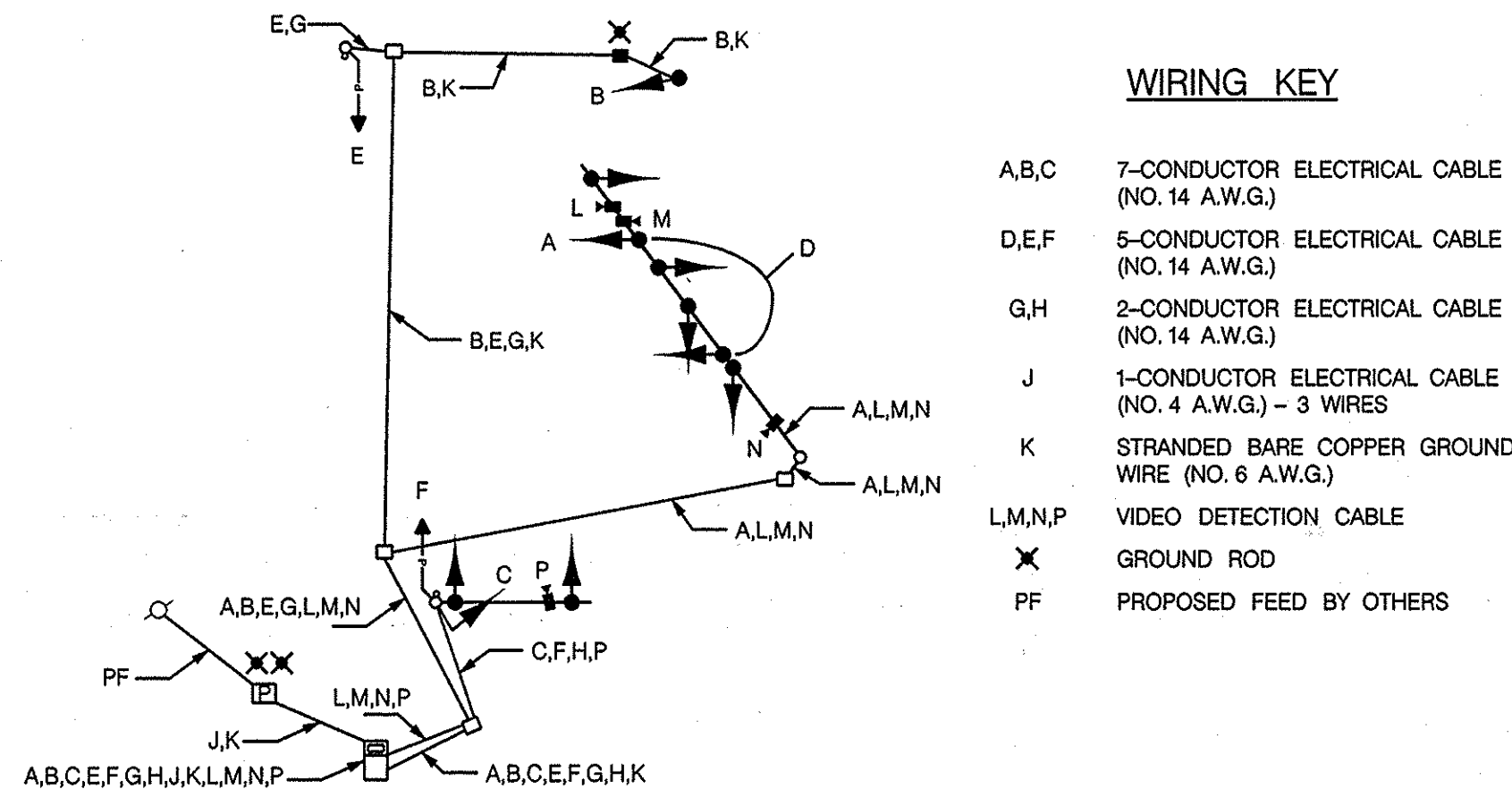
EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
	NONE	

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



PHASING CHART

	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 1 & 5	←G→	←G→	R	←G→	R	←G→	R	R	R	R	DONT WALK	DONT WALK
1 & 5 CHANGE	←G→	←G→	R	←G→	R	←G→	R	R	R	R	DONT WALK	DONT WALK
PHASE 1 & 6	←G→	←G→	G	R	R	R	R	R	R	R	DONT WALK	DONT WALK
1 & 6 CHANGE	←G→	←G→	G	R	R	R	R	R	R	R	DONT WALK	DONT WALK
PHASE 2 & 5	R	R	R	←G→	G	←G→	R	R	R	R	DONT WALK	DONT WALK
2 & 5 CHANGE	R	R	R	←G→	G	←G→	R	R	R	R	DONT WALK	DONT WALK
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	DONT WALK	DONT WALK
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	DONT WALK	DONT WALK
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	DONT WALK	DONT WALK
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DONT WALK	DONT WALK
ALT 4 & 8	R	R	R	R	R	R	G	G	G	G	WALK	WALK
ALT 4 & 8 PED CLEAR	R	R	R	R	R	R	G	G	G	G	FL \ WALK	FL \ WALK
ALT 4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DONT WALK	DONT WALK
FIRE PRE-EMPTION "A" (PHASE 2 & 5)	R	R	R	←G→	G	←G→	R	R	R	R	DONT WALK	DONT WALK
FIRE PRE-EMPTION "B" (PHASE 1 & 6)	←G→	←G→	G	R	R	R	R	R	R	R	DONT WALK	DONT WALK
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	DARK	DARK

TRAFFIC CONCEPTS, INC.

325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101
FAX: (410) 923-6473
EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION PLAN
US 11 AND GOVERNOR LANE BLVD/
HOFFMAN DRIVE
WILLIAMSPORT, MARYLAND

SCALE	NONE	DATE	5-29-2008	CONTRACT NO.	AX1425185
DESIGNED BY	S. RENZI	COUNTY	WASHINGTON		
DRAWN BY	M. ROSEN	LOGMILE	21001102.11		
CHECKED BY	K. SCHMIDT	T.I.M.S. NO.	I-691		
F.A.P. NO.	NA	TOD NO.			
DRAWING NO.	TS-XXX GI	SHEET NO.	2	OF	2